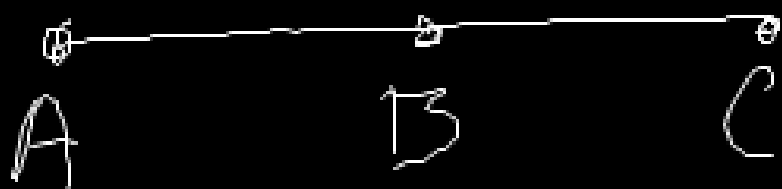


1) Segment Addition Postulate



$$\overline{AB} + \overline{BC} = \overline{AC}$$

★ Angle Addition Postulate

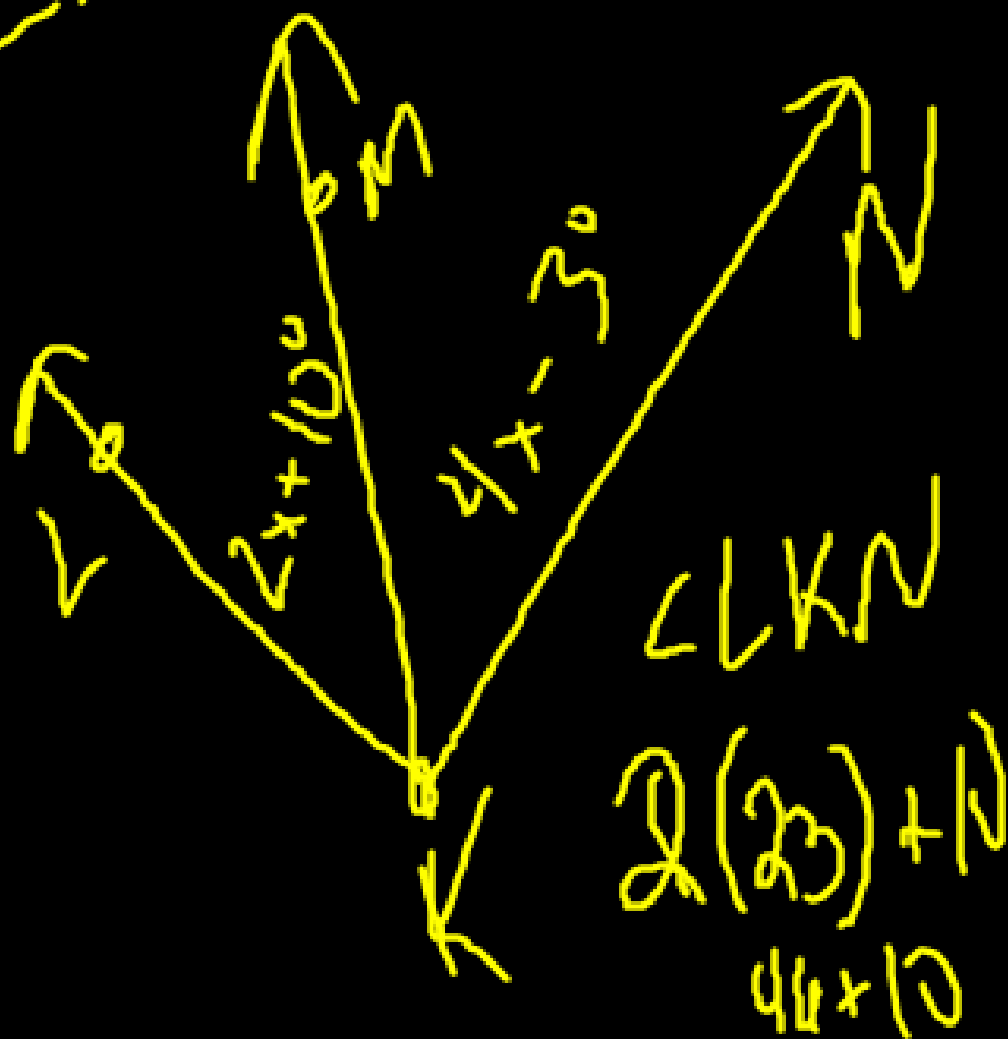
$$\angle T G K + \angle K G J =$$

$$\angle T G J$$



Ex. 1

$$\angle LKN = 145^\circ$$



$$\begin{aligned}\angle LKM + \angle MKN &= \angle LKN \\ 2x + 10 + 4x - 3 &= 145\end{aligned}$$

$$\begin{array}{r} 6x + 7 = 145 \\ -7 \quad -7 \\ \hline\end{array}$$

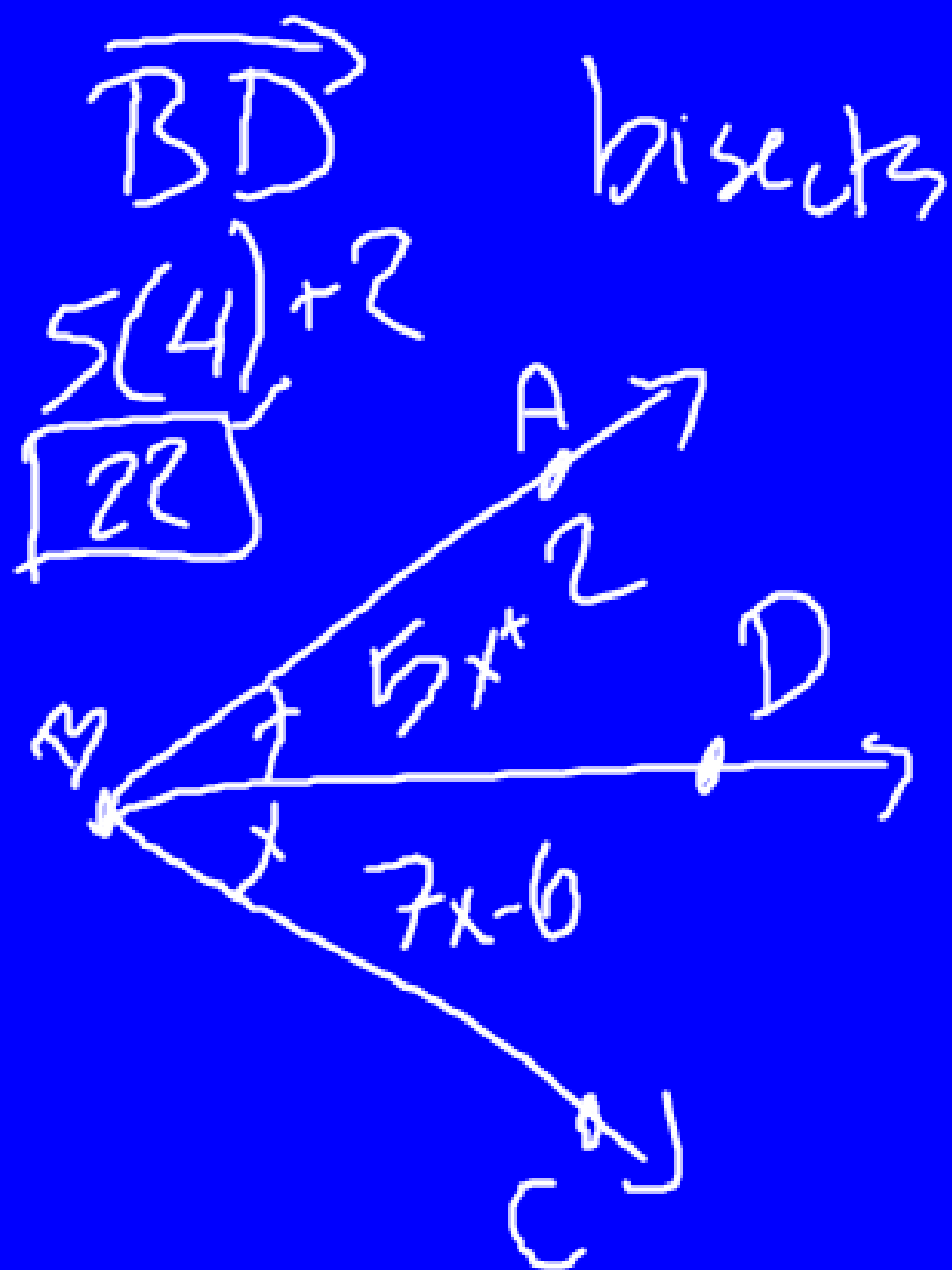
$$6x = 138$$

$$x = 23$$

ANGLE BISECTOR

Ray that cuts an angle directly in half





$\angle ABC$

Find $m\angle ABC$

$$\boxed{44^\circ}$$

$$5x + 2 = 7x - 6$$

$$-7x$$

$$-2x = -8 \quad x = 4$$

Pg. 29
#22-27

Pg 30 #29-31,
40-44

